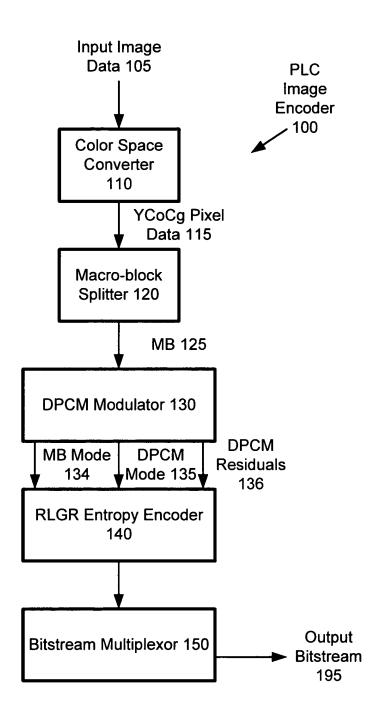
Inventor (s): Kunal Mukerjee
Date of Deposit: April 15, 2004
Express Mail Label No. EV 331582763 US
Title: PREDICTIVE LOSSLESS CODING OF IMAGES AND VIDEO
Attorney Matter No.: 3382-67643/SAW
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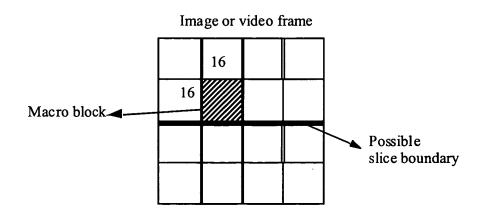
Figure 1



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Figure 2



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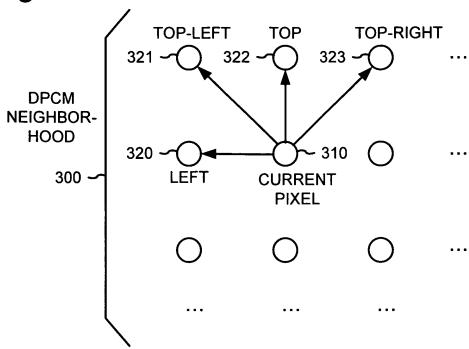
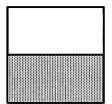


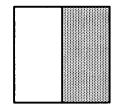
Figure 4

DPCM MODES

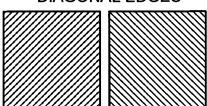
MODE 1: HORIZONTAL MAJOR EDGE



MODE 2: VERTICAL MAJOR EDGE



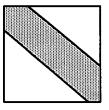
MODE 3: RAMP DIAGONAL EDGES



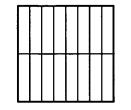
MODE 4: DIAGONAL RAMP EDGE



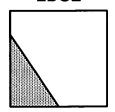
MODE 5: DIAGONAL BAND



MODE 6: BANDED HORIZONTAL RAMPS



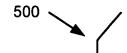
MODE 7: EDGE



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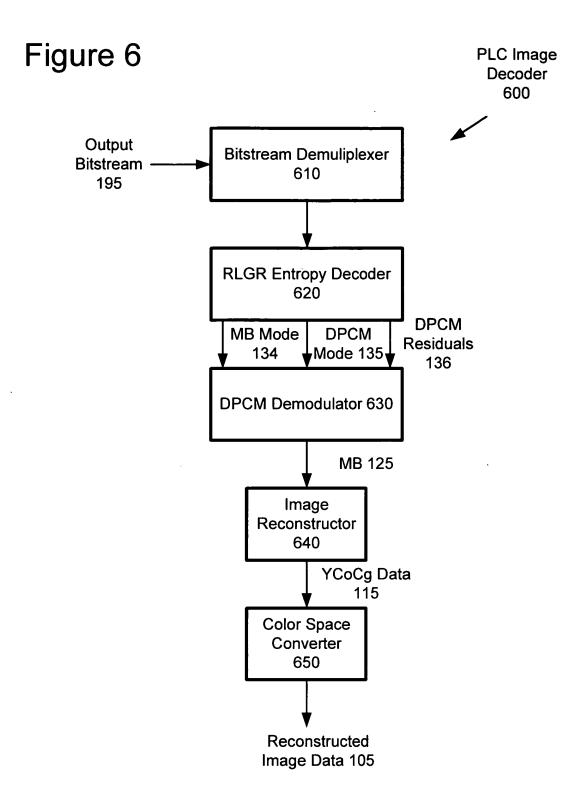
Figure 5



PLC (IN ImageBand i, OUT BitStream b)
for all Macroblocks do
find and apply the best DPCM mode
if MB is flat then continue // skip rest of for block
RLGR code the DPCM residuals

end for End PLC Inventor (s): Kunal Mukerjee
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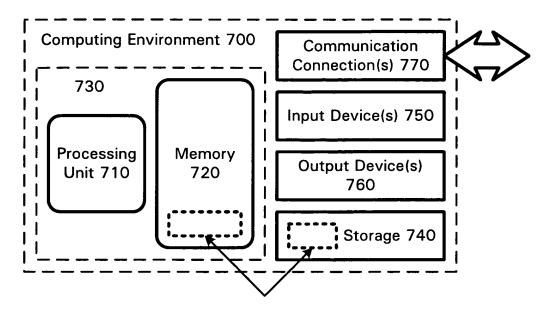
Stephen A. Wight Klarquist Sparkman, LLP 121 S.W. Salmon Street, Suite 1600 Portland, Oregon 97204 (503) 226-7391



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Figure 7



Software 780 Implementing Predictive Lossless Coding